

CLAIMS

1. An oscillating piston volumetric fluid meter  
 having a cylindrical measuring chamber (30)  
 5 comprising:

- a lateral wall (2),
- a bottom (1) and a lid (3),
- a lower cylinder (4) and an upper cylinder (5)  
 having the same diameter, which is less than the diameter  
 10 of said chamber (30),
- an inlet orifice (7) and an outlet orifice (8)  
 for respectively admitting fluid to and evacuating fluid  
 from said chamber (30),
- a cylindrical piston (11) disposed eccentrically  
 15 and guided kinematically in said chamber (30) and  
 effecting an oscillatory movement in said chamber (30) as  
 a result of the displacement of a volume of fluid, and
- a fixed partition (9) between said inlet orifice  
 (7) and said outlet orifice (8), lying radially between  
 20 said lateral wall (2) and said lower and upper cylinders  
 (4, 5), and lying axially between said bottom (1) and  
 said lid (3),

said lateral wall (2) including a vertical cavity  
 (16) in the vicinity of said fixed partition (9),  
 25 which meter is **configured such** that said cavity  
 (16) is separate from said inlet and outlet orifices and  
 passes through said lateral wall (2) at least partly  
 within the height of said wall.

2. A volumetric meter according to claim 1  
 30 characterized in that said cavity (16) is on the same  
 side of said fixed partition (9) as said outlet orifice  
 (8).

3. A volumetric meter according to claim 1  
 characterized in that said cavity (16) is on the same  
 35 side of said fixed partition (9) as said inlet

orifice (7).

4. A volumetric meter according to the preceding claim characterized in that said cavity (16) is a vertical slot parallel to a vertical edge of said fixed  
5 partition (9).

5. A volumetric meter according to the preceding claim characterized in that said slot (16) is tangential to said fixed partition (9).

6. A volumetric meter according to the preceding  
10 claim characterized in that said slot (16) has a width less than or equal to 3 mm.

7. A volumetric meter according to the preceding claim characterized in that said lateral wall (2) includes two cavities each on either side of said fixed  
15 partition.

8. A volumetric meter according to the preceding claim characterized in that it includes a vertical groove (17) extending along said lower and upper cylinders (4, 5), in communication with one of said inlet and  
20 outlet orifices (7, 8), and in the vicinity of said fixed partition (9).

9. A volumetric meter according to claim 8 characterized in that said vertical groove (17) is tangential to said fixed partition (9).

25 10. A volumetric meter according to claim 8 characterized in that said vertical groove (17) has a width less than or equal to 2 mm.